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OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE
AGRICULTURAL EXPERIMENT STATION
W. L. BLIZZARD, Director LOUIS E. HAWKINS, Vice Director

Host Index of Oklahoma Plant Diseases, Supplement, 1947

By
D. A. PRESTON

Stillwater, Oklahoma

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Host Index of Oklahoma Plant Diseases, Supplement, 1947

By D. A. PRESTON
Assistant Plant Pathologist

Introduction

This supplement is issued to help plant pathologists, field crop and horticultural specialists, nursery and crop inspectors, county agents, and others who are called upon to help farmers and gardeners prevent loss of crops by plant diseases, keep abreast of the trend of plant diseases in Oklahoma. It contains, in the form of a host index available information on the occurrence and distribution of the 331 additional plant diseases recorded in Oklahoma since publication of Oklahoma Agricultural Experiment Station Technical Bulletin No. T-21, *Host Index of Oklahoma Plant Diseases,* in September, 1945.

The same style and arrangement used in the host index is followed in this supplement. Technical Bulletin No. T-21 listed 2,110 diseases of Oklahoma plants. An additional 331 plant diseases appear in this supplement, thus bringing to 2,441 the total number of plant diseases so far recorded in Oklahoma.

The record of Peach yellows in Oklahoma, which appeared in Technical Bulletin T-21, should be deleted. It was included there on the basis of the report in Oklahoma Experiment Station Mimeo. Circ. No. 33, *Contribution Toward a Host Index to Plant Diseases in Oklahoma.* This disease is not known to occur in Oklahoma.

HOST INDEX

ABUTILON

A. INCANUM (Link) Sweet, INDIANMALLOW ABUTILON.
Puccinia heterospora Berk. & Curt., Rust; Murray.

ACALYPHA

A. VIRGINICA L., VIRGINIA ACALYPHA.
Cercospora acalyphae Peck, Leaf spot; Payne.

ACER

A. NEGUNDO L., BOXELDER.
Coniothyrium negundinis Tehon & Daniels, Twig canker; Payne.
Phleospora aceris (Lib.) Sacc., Leaf spot; Payne.
Physalospora obtusa (Schw.) Cke., Twig canker; Payne.

A. RUBRUM L., RED MAPLE.
Monochaetia desmazierii Graves, Leaf spot; Le Flore, Pushmataha.
Rhytisma acerinum (Pers.) Fr., Tar leaf spot; Le Flore, Pushmataha.

A. SACCHARINUM L., SILVER MAPLE.
Phyllosticta minima (Berk. & Curt.) Ell. & Ev., Leaf spot; Le Flore.

ALLIUM

A. CEPA L., GARDEN ONION.
Macrophomina phaseoli (Maubl.) Ashby, Scale smudge; Pittsburg.

AMBROSIA

A. ARTEMISIIFOLIA L., COMMON RAGWEED.
Erysiphe cichoracearum DC., Powdery mildew; Le Flore.

A. PSILOSTACHYA DC., WESTERN RAGWEED.
Erysiphe cichoracearum DC., Powdery mildew; Payne.

A. TRIFIDA L., GIANT RAGWEED.
Septoria bacilligera Wint., Leaf spot; Payne.

ANEMONE

A. VIRGINIANA L., VIRGINIA ANEMONE.
Puccinia anemones-virginianae Schw., Rust; McCurtain.

ANTIRRHINUM

A. MAJUS L., COMMON SNAPDRAGON.
Macrophomina phaseoli (Maubl.) Ashby, Charcoal rot; Osage.

ARACHIS

A. HYPOGAEA L., PEANUT.
Colletotrichum sp., Stem spot.
Fusarium moniliforme Sheldon, Seedling root rot.
Helminthosporium sp., Root rot.
Pleospora sp., Stem & leaf spot.
Unknown, Witches'-broom; Payne.

ARGEMONE

A. ALBA Lestib., WHITE PRICKLEPOPPY.
Septoria argemones Tharp, Leaf spot; Cleveland.
A. INTERMEDIA Sweet, PRICKLEPOPPY.
Septoria argemones Tharp, Leaf spot; Kingfisher, Lincoln, Marshall, McClain, Oklahoma.

ARGYTHAMNIA

A. MERCURIALINA Muell. Arg., SILVERBUSH.
Cercospora argyrothamniae Dearn. & House, Leaf spot; Bryan, Caddo.

ARMORACIA

A. RUSTICANA Gaertn., HORSERADISH.
Cercospora armoraciae Sacc., Leaf spot; Payne.

ASCLEPIAS

A. INCARNATA L., SWAMP MILKWEED.
Cercospora clavata (Gerard) Cke., Leaf spot; Ottawa.
Septoria asclepiadicola Ell. &Ev., Leaf spot; Ottawa.

ASTRAGALUS

A. DAHURICUS DC.
Virus, Mosaic; Payne.
A. FALCATUS Lam.
Virus, Mosaic; Payne.
A. HAMOSUS L.
Uromyces punctatus Schroet., Rust; Payne.
Virus, Mosaic; Payne.
A. MEXICANUS DC., GROUND PLUM.
Napicladium astragali Ell. & Ev., Leaf spot; Choctaw.

BERBERIS

B. VULGARIS L., EUROPEAN BARBERRY.
Cercospora boutelouae Chupp & Greene, Leaf spot;

BOUTELOUA

B. CURTIPENDULA (Michx.) Torr., SIDEOATS GRAMA.
Cercospora boutelouae Chupp & Greene, Leaf spot; Major, Payne.

BRASSICA

B. NIGRA (L.) Koch, BLACK MUSTARD.
Xanthomonas vesicatoria (Doidge) Dowson, Bacterial spot; Le Flore.

BROUSSONETIA

B. PAPYRIFERA (L.) Vent., COMMON PAPER MULBERRY.
Physalospora obtusa (Schw.) Cke., on branches; Payne.

CALAMOVILFA

C. GIGANTEA (Nutt.) Scribn. & Merr., BIG SANDREED.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Murray.

CALYCANTHUS

C. FLORIDUS L., CAROLINA ALLSPICE.
Haplosporella calycanthi Fairm.; Payne.

CALYCOCARPUM

C. LYONII Nutt., CUPSEED.
Cercospora menispermi Ell. & Holw., Leaf and fruit spot; Le Flore.

CAMPSIS

C. RADICANS (L.) Seem., COMMON TRUMPETCREEPER.
Cercospora sordida Sacc., Leaf blight; Le Flore, Ottawa.
Septoria tecomae Ell. & Ev., Leaf spot; Cherokee, Payne.

CAPSICUM

C. FRUTESCENS L., PEPPER.
Heterodera marioni (Cornu) Goodey, Root knot; McClain, Pittsburg.
Sclerotium rolfsii Sacc., Southern blight; Muskogee.

CAREX

C. RENIFORMIS (L. H. Bailey) Small.
Puccinia extensicola Plowr., Carex-composite rust.

CARYA

C. ILLINOENSIS (Wang.) K. Koch, PECAN.
Cephalothecium roseum Cda., on nuts following scab; general.
Eutypa heteracantha Sacc.; Payne.
Microsphaera alni DC. ex Wint., Powdery mildew; general.
Phyllosticta convexula Bub., Leaf spot; Le Flore.

CELTIS

C. OCCIDENTALIS L., COMMON HACKBERRY.
Sphaerotheca phytoptophyla Kell. & Swingle, Powdery mildew; Payne. Associated with gall-mites, *Eriophes* sp. on witches'-broom.

CEPHALANTHUS

C. OCCIDENTALIS L., COMMON BUTTONBUSH.
Diatrypella cephalanthi (Schw.) Sacc.; Payne.
Stereum rameale Schw. ex Burt; Payne.

CHENOPODIUM

C. ALBUM L., LAMBSQUARTERS GOOSEFOOT.
Heterodera marioni (Cornu) Goodey, Root knot.
C. AMBROSIOIDES var. ANTHELMINTICUM (L.) A. Gray, AMERICAN WORMSEED.
Stagonospora atriplicis (West.) Lind, Leaf spot; Beckham.
C. LEPTOPHYLLUM Nutt. ex Wats., SLIMLEAF GOOSEFOOT.
Cercospora dubia (Riess) Wint., Leaf spot; Woodward.

CHILOPSIS

C. LINEARIS (Cav.) Sweet, DESERT WILLOW.
Phymatotrichum omnivorum (Shear) Dug., Root rot.

CLEMATIS

C. DRUMMONDI Torr. & Gray, DRUMMOND CLEMATIS.
Cercospora squalidula Pk., Leaf spot; Tulsa.
C. LIGUSTICIFOLIA Nutt., WESTERN VIRGINSBOWER.
Cercospora squalidula Pk., Leaf spot; Cherokee.
C. VERSICOLOR Small, MANYCOLOR CLEMATIS.
Cercospora squalidula Pk., Leaf spot; Cherokee.

CORNUS

C. FLORIDA L., FLOWERING DOGWOOD.
Phyllosticta starbeckii Sacc. & Syd., Leaf spot; Carter.
Septoria cornicola Desm., Leaf spot; McCurtain, Ottawa.
C. RACEMOSA Lam., GRAY DOGWOOD.
Septoria cornicola Desm., Leaf spot; McCurtain.

CORYLUS

C. AMERICANA Marsh., AMERICAN FILBERT.
Gloeosporium coryli (Desm.) Sacc., Leaf spot; Ottawa.

CRATAEGUS

C. CRUS-GALLI L., COCKSPUR HAWTHORN.
Gymnosporangium globosum Farl., Hawthorn rust; Mayes.
C. PUNCTATA Jacq., DOTTED HAWTHORN.
Septoria crataegi Kickx., Leaf spot; Muskogee.

CROTALARIA

C. ANAGYROIDES H. B. K.
Virus, Crotalaria mosaic; Payne.
C. MUNDYI Baker
Virus, Crotalaria mosaic; Payne.
C. SPECTABILIS Roth, SHOWY CROTALARIA.
Fusarium sp., Wilt & root rot; Payne.
Macrophomina phaseoli (Maubl.) Ashby, Charcoal rot.
Virus, Crotalaria mosaic; Payne.
C. STRIATA Schrank
Virus, Crotalaria mosaic; Payne.
C. USARAMOENSIS Baker
Virus, Crotalaria mosaic; Payne.

CROTONOPSIS

C. LINEARIS Michx.
Bubakia crotonis (Cke.) Arth., Rust; Muskogee.

DACTYLIS

D. GLOMERATA L., ORCHARDGRASS.
Claviceps microcephala (Wallr.) Tul., Ergot.

DAHLIA

D. SP., DAHLIA.
Macrophomina phaseoli (Maubl.) Ashby, Charcoal rot; Osage.

DIGITARIA

D. SANGUINALIS (L.) Scop., HAIRY CRABGRASS.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Payne.

DISTICHLIS

D. STRICTA (Torr.) Rydb., INLAND SALTGRASS.
Endodothella tracyi (Ell. & Ev.) Theiss & Syd., Tar spot.

ECHINOCHLOA

E. COLONUM (L.) Link, JUNGLERICE.
Piricularia grisea (Cke.) Sacc., Gray leaf spot; Le Flore.

ELYMUS

E. VIRGINICUS L., VIRGINIA WILDRYE.
Epichloe typhina (Pers. ex Fr.) Tul., Cat-tail.

ERAGROSTIS

E. CURVULA (Schrad.) Nees, WEEPING LOVEGRASS.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Payne.

E. LUGENS Nees, MOURNING LOVEGRASS.
Phyllachora eragrostidis Chardon, Tar spot; Payne.
Piricularia grisea (Cke.) Sacc., Gray leaf spot.
Uromyces eragrostidis Tracy, Rust; Payne.

E. SECUNDIFLORA Presl, RED LOVEGRASS.
Scolecotrichum graminis Fckl., Brown stripe; Payne.

ERIANTHUS

E. ALOPECUROIDES (L.) Ell., SILVER PLUMEGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.

ERYNGIUM

E. LEAVENWORTHII Torr. & Gray, LEAVENWORTH ERYNGO.
Macrophomina phaseoli (Maubl.) Ashby, Charcoal rot; Payne.

EUPLOCA

E. CONVOLVULACEA Nutt., BINDWEED EUPLOCA.
Cercospora heliotropii Ell. & Ev., Leaf spot; Cleveland, Kingfisher.

FESTUCA

F. ELATIOR L., MEADOW FESCUE.
Claviceps purpurea (Fr.) Tul., Ergot.

FIRMIANA

F. SIMPLEX (L.) W. F. Wight, CHINESE PARASOLTREE.
Nectria cinnabarina Tode ex. Fr., Dieback; Payne.
Phomopsis sp., on branches; Payne.

FORSYTHIA

F. INTERMEDIA Zabel, BORDER FORSYTHIA.
Gloeosporium sp., Anthracnose; Payne.

FRAGARIA

F. SPP., STRAWBERRY.
Coniothyrium sp., Black rot.
Pezizella oenotherae (Cke. & Ell.) Sacc., Tan rot.

FRAXINUS

F. PENNSYLVANICA var. LANCEOLATA (Borkh.) Sarg., GREEN ASH.
Puccinia peridermiospora (Ell. & Tr.) Arth., Rust; Murray.
Rhizoctonia solani Kuhn, Seedling blight; Garfield.
F. VELUTINA Torr., VELVET ASH.
Mycosphaerella fraxinicola (Schw.) House, Leaf spot; Payne.

FROELICHIA

F. FLORIDANA (Nutt.) Moq.
Cercospora crassoides J. J. Davis, Leaf spot; Payne.

GAILLARDIA

G. ARISTATA Pursh, COMMON PERENNIAL GAILLARDIA.
Erysiphe cichoracearum DC., Powdery mildew; Payne.

GALACTIA

G. VOLUBILIS (L.) Britt., DOWNY MILKPEA.
Cercospora flagellifera Atk., Leaf spot; Payne.

GAURA

G. COCCINEA Pursh, SCARLET GAURA.
Cercospora gaurae Kell. & Swingle, Leaf spot; Haskell, Le Flore, Mayes, Muskogee, Ottawa, Payne, Wagoner.

G. FILIFORMIS var. TYPICA P. A. Munz.
Septoria gaurina Ell. &Kell., Leaf spot; Oklahoma.
G. PARVIFLORA Dougl.
Cercospora flagellifera Atk., Leaf spot; Payne.
G. SUFFULTA Engelm.
Septoria gaurina Ell. & Kell., Leaf spot; Murray.

GLYCERIA

G. STRIATA (Lam.) Hitchc., FOWL MANNAGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.

GOSSYPIUM

G. HIRSUTUM L., UPLAND COTTON.
Mycosphaerella areola Ehrlich & Wolf, Areolate mildew, Frosty blight.
Pestalozziella gossypina Atk., Secondary boll rot.
Physalospora rhodina (Berk. & Curt.) Cke., Diplodia boll rot.
Puccinia stakmanii Presley, Rust.
Nonparasitic, Sand drown (resulting from magnesium deficiency).

GYMNOCLADUS

G. DIOICA (L.) Koch, KENTUCKY COFFEETREE.
Fusarium sp.; Osage.

GYPSOPHILA

G. PANICULATA L., BABYSBREATH.
Fusarium sp.; Osage.
Rhizoctonia solani Kuhn, Root rot; Osage.

HAMAMELIS

H. VIRGINIANA L., COMMON WITCHHAZEL.
Discosia artocreas Tode ex Fr., Leaf spot; Le Flore.

HIBISCUS

H. SYRIACUS L., SHRUBALTHEA: ROSE-OF-SHARON.
Phyllosticta hibiscina Ell. & Ev., Leaf spot; Payne.

HILARIA

H. MUTICA (Buckl.) Benth., TOBOSA GRASS.
Claviceps cinerea Griff., Ergot.

HORDEUM

H. JUBATUM L., FOXTAIL BARLEY.
Claviceps purpurea (Fr.) Tul., Ergot.

HYDROLEA

H. OVATA Nutt.

Cercosporina namae (Dearn. & House) Sacc., Leaf spot; Pittsburg, Pushmataha.

ILEX

I. DECIDUA Walt., POSSUMHAW.
Rhytisma ilicincolum Schw. ex Fr., Tar spot; Muskogee.

I. OPACA Ait., AMERICAN HOLLY.
Diaporthe oxyspora (Pk.) Sacc., on branches; McCurtain.
Macroderma curtisii (Berk. & Rav.) Hoehn., Tar spot; McCurtain.

IPOMOEA

I. BATATAS (L.) Lam., SWEETPOTATO.
Pythium ultimum Trow., Mottle necrosis; Payne.

I. LONGIFOLIA Benth.
Albugo ipomoeae-panduranae (Schw.) Swingle, White blister; Payne.

IRESINE

I. CELOSIA L., JUBASBUSH BLOODLEAF.
Septoria iresines Speg., Leaf spot; Payne.

JUGLANS

J. NIGRA L., EASTERN BLACK WALNUT.
Fomes igniarius (L. ex Fr.) Kickx, White heart rot; Murray.
Stereum fasciatum Schw., on branches; Pawnee.

JUNCUS

J. DUDLEYI Wiegand.
Leptosphaeria michotii (Westd.) Sacc.; Cimarron.
Uromyces silphii (Burr.) Arth., Rust; Cimarron.

JUNIPERUS

J. COMMUNIS var. DEPRESSA Pursh, PROSTRATE JUNIPER.
Gymnosporangium clavipes Cke. & Pk., Rust gall; Payne.
Gymnosporangium globosum Farl., Rust gall; Payne.
Gymnosporangium juniperi-virginianae Schw., Rust gall; Payne.

J. VIRGINIANA L., EASTERN REDCEDAR.
Cercospora sequoiae var. *juniperi* Ell. & Ev., Leaf needle cast; Washington.
Phomopsis juniperovora Hahn, Nursery blight; Cleveland, Grady, Payne.
J. SP., JUNIPER.
Poria rimosa Murr.; Comanche.

KOELERIA

K. CRISTATA (L.) Pers., PRAIRIE JUNEGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.

LAPORTEA

L. CANADENSIS (L.) Gaud., CANADA WOODNETTLE.
Septoria urticae Desm. & Rob., Leaf spot; Pawnee.

LATHYRUS

L. SYLVESTRIS L., FLAT PEAVINE.
Ascochyta pisi Lib., Leaf spot; Payne.
Heterosporium sp., Leaf spot; Payne.

LEPTOLOMA

L. COGNATUM (Schult.) Chase, FALL WITCHGRASS.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Mayes, Osage, Rogers.
Mycosphaerella sp.; Muskogee, Payne.

LIATRIS

L. SCARIOSA (L.) Willd., TALL GAYFEATHER.
Leptosphaeria trimeroides Rehm; Ottawa.
Phyllosticta liatridis J. J. Davis, Leaf spot; Payne.

LIGUSTRUM

L. OVALIFOLIUM Hassk., CALIFORNIA PRIVET.
Cytospora sp., Dieback; Payne.

LIMNODIA

L. ARKANSANA (Nutt.) L. H. Dewey, OZARKGRASS.
Puccinia coronata Cda., Crown rust.
Puccinia graminis Pers., Stem rust.

LIQUIDAMBAR

L. STYRACIFLUA L., AMERICAN SWEETGUM.
Discosia artocreas Tode ex Fr., Leaf spot; Payne.
Leptothyriella liquidambaris Tehon & Stout, Red leaf spot; McCurtain.

LONICERA

L. HECKROTTI Rehd., EVERBLOOMING HONEYSUCKLE.
Diaporthe eres Nit., on branches; Payne.

MACLURA

M. POMIFERA (Raf.) Schneid., OSAGEORANGE.
Phymatotrichum omnivorum (Shear) Dug., Root rot.

MAGNOLIA

M. GRANDIFLORA L., SOUTHERN MAGNOLIA.
Macrophoma sp., on branches; Payne.

MALUS

M. SYLVESTRIS Mill., APPLE.
Leptosphaeria coniothyrium (Fckl.) Sacc., Canker; Muskogee.
Schizophyllum commune Fr., Bark & sapwood rot; Noble, Payne.

MALVA

M. ROTUNDIFOLIA L., RUNNING MALLOW.
Cercospora altheina Sacc., Leaf spot; Kay, Kingfisher, Latimer, Noble.

MEDICAGO

M. SATIVA L., ALFALFA.
Leptosphaeria pratensis Sacc. & Briard, Leaf spot.
Panagrolaimus subelongatus (Cobb) Thorne, Nematode.

MELIA

M. AZEDARACH L., CHINABERRY.
Diplodia langloisii Sacc. & Syd., on branches; Payne.
Eutypella stellulata (Fr.) Sacc., on branches; Payne.
Schizophyllum commune Fr., Sapwood rot; Payne.

MELILOTUS

M. OFFICINALIS (L.) Lam., YELLOW SWEETCLOVER.
Ascochyta caulicola Laub., Stem canker; Payne.
Mycosphaerella davisii F. R. Jones, Leaf spot; Payne.
Phoma medicaginis Malb. &Roum., Black stem; McClain.

MENTZELIA

M. NUDA (Pursh) Torr. & Gray, BRACTLESS MENTZELIA.
Phyllosticta mentzeliae Ell. & Kell., Leaf spot; Johnston.

MORUS

M. ALBA L., WHITE MULBERRY.
Cytospora sp., Twig canker; Pawnee.
M. RUBRA L., RED MULBERRY.
Cercospora moricola Cke., Leaf spot; Johnston.

MUHLENBERGIA

M. ASPERIFOLIA (Nees & Mey.) Parodi, SCRATCHGRASS.
Scirrhia sporoboli Atk., on culms; Woods.
M. MEXICANA (L.) Trin., WIRESTEM MUHLY.
Chaetomella atra Fckl.; Payne.
M. RACEMOSA (Michx.) B. S. P., GREEN MUHLY.
Puccinia schedonnardi Kell. & Swingle, Leaf rust.
M. SCHREBERI Gmel., NIMBLEWILL.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Adair.

NERIUM

N. OLEANDER L., OLEANDER.
Capnodium elongatum Berk. & Desm., Sooty mold; Payne.

NOTHOSCORDUM

N. BIVALVE (L.) Britt., YELLOW FALSEGARLIC.
Colletotrichum circinans (B.) Vogl. Anthracnose; Payne.

NYSSA

N. SYLVATICA Marsh., BLACK TUPELO: BLACKGUM.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; Pushmataha.

ORYZOPSIS

O. HYMENOIDES (Roem. & Schult.) Ricker, INDIAN RICEGRASS.
Ustilago nummularia Speg., Stem smut; Woodward.

OSTRYA

O. VIRGINIANA (Mill.) K. Koch, AMERICAN HOPHORNBEAM.
Gloeosporium robergei Desm., Leaf spot; Le Flore.

PANICUM

P. SCRIBNERIANUM Nash, SCRIBNER PANICUM.
Phyllachora punctum (Schw.) Orton, Tar spot; Craig.
P. VIRGATUM L., SWITCHGRASS.
Phyllosticta panici E. Young, Leaf spot; Payne.
P. XALAPENSE H. B. K., JALAPA PANICUM.
Cercospora fusimaculans Atk., Leaf spot; McCurtain, Muskogee.

PASPALUM

P. DILATATUM Poir., DALLIS GRASS.
Claviceps paspali F. L. Stevens & J. G. Hall, Ergot.
P. DISTICHUM L., KNOTGRASS.
Claviceps paspali F. L. Stevens & J. G. Hall, Ergot.
P. FLORIDANUM Michx., FLORIDA PASPALUM.
Puccinia substriata Ell. & Barth., Rust; Le Flore.
P. LAEVE Michx., FIELD PASPALUM.
Claviceps paspali F. L. Stevens & J. G. Hall, Ergot.
P. STRAMINEUM Nash, SAND PASPALUM.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Payne.
Piricularia grisea (Cke.) Sacc., Gray leaf spot; Comanche.
P. URVILLEI Steud., VASEY GRASS.
Claviceps paspali F. L. Stevens & J. G. Hall, Ergot.

PAULOWNIA

P. TOMENTOSA (Thunb.) Steud., ROYAL PAULOWNIA: PRINCESS TREE.
Phyllosticta paulowniae Sacc., Leaf spot; Le Flore.

PELARGONIUM

P. SP., GERANIUM.
Pythium compectens Braun, Stem rot.

PENSTEMON

P. PALLIDUS Small, PALE PENSTEMON.
Septoria pentstemonis Ell. & Ev., Leaf spot; McCurtain.

PETALOSTEMON

P. MULTIFLORUS Nutt., ROUNDHEADED PRAIRIE-CLOVER.
Pyrenophora comata (Auers. & Niessl) Sacc., Pottawatomie.

PHALARIS

P. ARUNDINACEA L., REED CANARYGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.
P. CAROLINIANA Walt., CAROLINA CANARYGRASS.
Puccinia graminis Pers., Stem rust.

PHASEOLUS

P. AUREUS Roxb., MUNG BEAN.
Erysiphe polygoni DC., Powdery mildew; Carter, Payne
Marmor phaseoli Holmes, Mosaic; Payne.
Sclerotium rolfsii Sacc., Southern blight; Le Flore.
P. LUNATUS L., LIMA BEAN.
Diaporthe phaseolorum (Cke. & Ell.) Sacc., Pod blight and Leaf spot.
Heterodera marioni (Cornu) Goodey, Root knot; McClain, Payne.
Macrophomina phaseoli (Maubl.) Ashby, Ashy stem blight.
P. VULGARIS L., BEAN.
Isariopsis griseola Sacc., Angular leaf spot.
Macrophomina phaseoli (Maubl.) Ashby, Ashy stem blight; Le Flore, Payne.
Phymatotrichum omnivorum (Shear) Dug., Root rot.

PHOTINIA

P. VILLOSA (Thunb.) DC., ORIENTAL PHOTINIA.
Cytospora sp., Dieback; Payne.
Fusicladium photinicola McClain, Scab; Payne.

PHRAGMITES

P. COMMUNIS Trin., COMMON REED.
Claviceps purpurea (Fr.) Tul., Ergot.

PHYSALIS

P. MOLLIS Nutt., VELVETY GROUNDCHERRY.
Phyllosticta sp., Leaf spot; Payne.

PHYTOLACCA

P. AMERICANA L., COMMON POKEBERRY.
Diaporthe arctii (Lasch) Nit.; Payne.

PINUS

P. NIGRA var. AUSTRIACA (Hoess) Aschers. & Graebn., AUSTRIAN PINE.
Sphaeropsis ellisii Sacc., Tip blight.
P. RESINOSA Ait., RED PINE.
Dothistroma pini Hulbary, Needle blight; Payne.

PLANTAGO

P. MAJOR L., RIPPLESEED PLANTAIN.
Sphaceloma plantaginis Jenkins & Bitancourt, Scab; Payne.
P. RUGELLI Dcne., BLACKSEED PLANTAIN.
Sphaceloma plantaginis Jenkins & Bitancourt, Scab; Payne.

PLATANUS

P. OCCIDENTALIS L., AMERICAN PLANETREE: SYCAMORE.
Phomopsis scabra (Sacc.) Trav., on twigs; Pawnee.
Phoradendron flavescens (Pursh) Nutt., Mistletoe; McCurtain.
Stereum fasciatum Schw., Wood rot; Pawnee.

POA

P. ANNUA L., ANNUAL BLUEGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.
P. COMPRESSA L., CANADA BLUEGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Cimarron.
P. PRATENSIS L., KENTUCKY BLUEGRASS.
Claviceps purpurea (Fr.) Tul., Ergot.

POLYGONUM

P. PERSICARIA L., SPOTTED LADYSTHUMB.
Ascochyta biguttulata Daniels, Leaf spot; Payne.
Puccinia polygoni-amphibii var. *persicariae* (Str.) Arth., Rust; Payne.

POPULUS

P. ALBA L., WHITE POPLAR.
Schizophyllum commune Fr., Sapwood rot; Le Flore.
P. DELTOIDES Marsh., EASTERN POPLAR: COTTONWOOD.
Phymatotrichum omnivorum (Shear) Dug., Root rot.

PROBOSCIDEA

P. JUSSIEUI Steud., COMMON DEVILSCLAWS.
Cercospora beticola Sacc., Leaf spot; Oklahoma.

PROSOPIS

P. GLANDULOSA Torr., MESQUITE.
Phyllosticta juliflora Ell. & Barth., Leaf spot; Payne.
Ravenelia arizonica Ell. & Ev., Leaf rust; Major.

PRUNUS

P. AMERICANA Marsh., AMERICAN PLUM.
Dibotryon morbosum (Schw.) Theiss. & Syd. Black knot; Payne.
P. ARMENIACA L., APRICOT.
Cladosporium carpophilum Thum., Scab.
P. LANATA (Sudw.) Mack. & Bush., INCH PLUM.
Coccomyces prunophorae Higgins, Leaf spot; Oklahoma.
P. SP., PLUM.
Heterodera marioni (Cornu) Goodey, Root knot; McClain.

PSORALEA

P. DIGITATA Nutt., DIGITATE SCURFPEA.
Parodiella perisporioides (Berk. & Curt.) Speg., Black spot; Payne.

PUNICA

P. GRANATUM L., POMEGRANATE.
Corticium stevensii Burt, Thread blight; Payne.
Phomopsis sp., on twigs; Payne.

QUERCUS

Q. MACROCARPA Michx., BUR OAK.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; McCurtain.
Cronartium quercuum (Berk.) Miyabe, Leaf rust; Payne.

Q. MARILANDICA Muench., BLACKJACK OAK.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; Ottawa.
Q. MUHLENBERGII Engelm., CHINKAPIN OAK.
Phomopsis quercinum (Sacc.) Hoehn., Twig canker; Pawnee.
Q. NIGRA L., WATER OAK.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; Le Flore.
Marssonina martini (Sacc. & Ell.) P. Magn., Leaf spot; Le Flore.
Q. RUBRA L. (Q. falcata Michx.) SOUTHERN RED OAK.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; Ottawa.
Q. STELLATA Wang., POST OAK.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; Payne.
Q. VELUTINA Lam., BLACK OAK.
Actinopelte dryina (Sacc.) Hoehn., Leaf spot; Payne.
Monochaetia desmazierii Sacc., Leaf spot; Le Flore.

RAPHANUS

R. SATIVUS L., GARDEN RADISH.
Heterodera marioni (Cornu) Goodey, Root knot; Payne.

RHEUM

R. RHAPONTICUM L., GARDEN RHUBARB.
Colletotrichum erumpens Sacc., Anthracnose; Payne.
Phyllosticta straminella Bres., Stem spot; Payne.

RHUS

R. GLABRA L., SMOOTH SUMAC.
Lophodermium petiolicolum Fckl.; Payne.
R. TYPHINA L., STAGHORN SUMAC.
Nectria cinnabarina Tode ex Fr., Canker; Garfield.

RICINUS

R. COMMUNIS L., CASTORBEAN.
Heterodera marioni (Cornu) Goodey, Root knot; McClain.

ROSA

R. CAROLINA L., CAROLINA ROSE.
Diplocarpon rosae Wolf, Blackspot; Haskell, Muskogee.
R. CHINENSIS Jacq., CHINESE ROSE.
Diplocarpon rosae Wolf, Blackspot; Payne.
R. FOLIOLOSA Nutt., LEAFY ROSE.
Cercospora rosicola Pass., Leaf spot; Garvin, Le Flore, Murray, Okfuskee, Ottawa, Payne, Pottawatomie, Tulsa.

R. GALLICA L., FRENCH ROSE.
Diplocarpon rosae Wolf, Blackspot; Payne.
R. LAEVIGATA Michx., CHEROKEE ROSE.
Cercospora rosicola Pass., Leaf spot; McCurtain, Muskogee.
R. SETIGERA Michx., PRAIRIE ROSE.
Cercospora rosicola Pass., Leaf spot; Mayes. McCurtain, Payne.
R. SUFFULTA Grene, SUNSHINE ROSE.
Cercospora rosicola Pass., Leaf spot; Craig.
R. VIRGINIANA Mill., VIRGINIA ROSE.
Cercospora rosicola Pass., Leaf spot; Cherokee.
R. WOODSII Lindl., WOODS ROSE.
Cercospora rosicola Pass., Leaf spot; Noble.
Diplocarpon rosae Wolf, Blackspot; Beaver.
R. SP., ROSE (Cult.).
Cladosporium sp., Bud blight; Alfalfa.

RUBUS

R. SP., YOUNGBERRY.
Elsinoe veneta (Speg.) Jenkins, Anthracnose; Adair, Bryan, Choctaw, Haskell.

SAGITTARIA

S. LATIFOLIA Willd., COMMON ARROWHEAD.
Cercospora sagittariae Ell. & Kell., Leaf spot; Haskell.

SALIX

S. ALBA var. VITELLINA (L.) Stokes, YELLOWSTEM WHITE WILLOW.
Cytospora chrysosperma Pers. ex Fr., Dieback; Payne.
S. SP., WILLOW.
Discella carbonacea (Fr.) Berk. & Br., Twig blight; Logan.

SAPINDUS

S. DRUMMONDII Hook. & Arn., WESTERN SOAPBERRY.
Phomopsis sp., on branches; Payne.

SAURURUS

S. CERNUUS L., COMMON LIZARDTAIL.
Ramularia saururi (Ell. & Ev.) Tharp, Leaf spot; Delaware, McCurtain.

SCROPHULARIA

S. MARILANDICA L., MARYLAND FIGWORT.
Septoria scrophulariae Pk., Leaf spot; Payne.
S. NEGLECTA Rydb.
Septoria scrophulariae Pk., Leaf spot; Payne.

SECALE

S. CEREALE L., RYE.
Scolecotrichum graminis Fckl., Brown stripe; Garfield.

SETARIA

S. GENICULATA (Lam.) Beauv., KNOTROOT BRISTLEGRASS.
Cercospora setariicola Tehon & Daniels, Leaf spot; McCurtain.
S. LUTESCENS (Weigel) F. T. Hubb., YELLOW BRISTLEGRASS.
Sporotrichum peribuyense Speg., Leaf blister.
S. VIRIDIS (L.) Beauv., GREEN BRISTLEGRASS.
Piricularia grisea (Cke.) Sacc., Gray leaf spot; Payne, Woods.

SMILACINA

S. RACEMOSA (L.) Desf., FEATHER SOLOMONPLUME.
Sphaeropsis cruenta (Fr.) Gilman & Archer, Leaf spot; McCurtain.

SMILAX

S. HERBACEA L., CARRIONFLOWER GREENBRIER.
Dothiorella smilacina (Pk.) Petr. & Syd., Leaf spot; Bryan, Cleveland.
S. HISPIDA Muhl., BRISTLY GREENBRIER.
Dothiorella smilacina (Pk.) Petr. & Syd., Leaf spot; Kay, Murray, Payne.
S. ROTUNDIFOLIA L., COMMON GREENBRIER.
Cercospora smilacina Sacc., Leaf spot; McCurtain.
S. SP., GREENBRIER.
Pestalotia clavata Cke. & Ell., Leaf spot; Pushmataha.

SOJA

S. MAX (L.) Piper, SOYBEAN.
Heterodera marioni (Cornu) Goodey, Root knot; Muskogee.
Phomopsis sojae Lehm., Stem blight; Le Flore, Payne.

Phyllosticta glycineum Tehon & Daniels, Leaf spot; Payne.
Sclerotium rolfsii Sacc., Southern blight; Le Flore.

SOLANUM

S. MELONGENA L., GARDEN EGGPLANT.
Heterodera marioni (Cornu) Goodey, Root knot; McClain, Pittsburg.
S. SP.
Erysiphe cichoracearum DC., Powdery mildew; Le Flore.

SOLIDAGO

S. HISPIDA Muhl., HAIRY GOLDENROD.
Puccinia extensicola var. *solidaginis* (Schw.) Arth., Rust; Le Flore.
S. SP., GOLDENROD.
Septoria bacilligera Wint., Leaf spot; Pawnee.

SOPHORA

S. JAPONICA L., JAPANESE PAGODATREE.
Phyllosticta sophorae Ell. & Ev., Leaf spot; Payne.

SORGHASTRUM

S. NUTANS (L.) YELLOW INDIANGRASS.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Cleveland.

SORGHUM

S. VULGARE Pers., SORGHUM.
Fusarium moniliforme Sheldon, Seedling blight.
Helminthosporium sativum Pam., King, & Bakke, Root rot.
Phyllosticta sorghina Sacc., Leaf spot.
Rhizoctonia solani Kuhn, Secondary root rot.
X S. VULGARE Pers. x S. VULGARE var. SUDANENSIS (Piper) Hitchc.
Puccinia purpurea Cke., Rust; Payne.

SPARTINA

S. PECTINATA Link, PRAIRIE CORDGRASS.
Puccinia distichlidis Ell. &Ev., Rust.

SPECULARIA

S. PERFOLIATA (L.) A.DC., CLASPING VENUSLOOKINGGLASS.
Ustilago specularíae Stevenson, Smut; Pittsburg.

SPINACIA

S. OLERACEA L., SPINACH.
Cladosporium macrocarpum Preuss, Leaf mold; Muskogee.

SPOROBOLUS

S. AIROIDES Torr., ALKALI SACATON.
Anguina sp., Inflorescence gall; Woodward.
S. CLANDESTINUS (Spreng.) Hitchc., HIDDEN DROPSEED.
Colletotrichum graminicolum (Ces.) G. W. Wils., Anthracnose; Oklahoma.
Selenophoma donacis (Pass.) Sragué & A. G. Johns. var., Speckle; Oklahoma.

STIPA

S. COMATA Trin. & Rupr., NEEDLEANDTHREAD.
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STROPHOSTLES

S. LEIOSPERMA (Torr. & Gray) Piper.
Phyllosticta phaseolina Sacc., Leaf spot; Osage, Payne.
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S. MISSOURIENSIS (Wats.) Small.
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SYMPLOCOS

S. TINCTORIA (L.) L'Her., COMMON SWEETLEAF.
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TAMARIX

T. HISPIDA Willd., KASHGAR TAMARISK.
Leptosphaeria tamaricis (Grev.) Sacc., on branches; Payne.

TILIA

T. AMERICANA L., AMERICAN LINDEN: BASSWOOD.
Eutypella stellulata (Fr.) Sacc., on branches; Pawnee.
Haplosporella tiliacea (Pk.) Petrak, on branches; Le Flore.
Nectria cinnabarina Tode ex Fr., Dieback; Le Flore, Payne.
Sphaeropsis sp., Leaf spot; Le Flore, Ottawa, Payne.
Valsa ambiens Pers. ex Fr., Canker; Le Flore.

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T. AURANTIACUM Bickn., ORANGE HORSEGENTIAN.
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T. DACTYLOIDES L., EASTERN GAMAGRASS.
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T. AESTIVUM L., WHEAT.
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ULMUS

U. ALTA Michx., WINGED ELM: WAHOO.
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U. AMERICANA L., AMERICAN ELM.
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Rhizoctonia solani Kuhn, Root rot, Damping off; Oklahoma.
Sphaeropsis ulmicola Ell. & Ev., Twig canker; Payne.
Stereum fasciatum Schw., Wood rot; Pawnee.
Taphrina ulmi (Fckl.) Johans., Leaf blister; Tulsa.
Uncinula macrospora Pk., Powdery mildew; Oklahoma.
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U. PARVIFOLIA Jacq., CHINESE ELM.
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U. PUMILA L., SIBERIAN ELM.
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V. ARBOREUM Marsh., FARKLEBERRY.
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V. NEGUNDO var. INCISA Clarke, CUTLEAF CHASTETREE.
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X. ITALICUM Mor., ITALIAN COCKLEBUR.
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PLEOSPORA SP.
Arachis hypogaea

POLYPORUS GILVUS
Ulmus pumila

PORIA RIMOSA
Juniperus sp.

PRATYLENCHUS PRATENSIS
Ulmus parvifolia

PUCCINIA ANEMONES-VIRGINIANAE
Anemone virginiana

PUCCINIA CANALICULATA
Xanthium italicum

PUCCINIA CARICIS var. URTICATA
Urtica urens

PUCCINIA CORONATA
Limnodia arkansana

PUCCINIA DISTICHLIDIS
Spartina pectinata

PUCCINIA EXTENSICOLA
Carex reniformis

PUCCINIA EXTENSICOLA var. SOLIDAGINIS
Solidago hispida

PUCCINIA GRAMINIS
Berberis vulgaris
Limnodia arkansana
Phalaris caroliniana

PUCCINIA HETEROSPORA
Abutilon incanum

PUCCINIA PERIDERMIOSPORA
Fraxinus pennsylvanica var. *lanceolata*

PUCCINIA POLYGONI-AMPHIBII var. PERSICARIAE
Polygonum persicaria

PUCCINIA PURPUREA
Sorghum vulgare x *Sorghum vulgare* var. *sudanensis*

PUCCINIA SCHEDONNARDI
Muhlenbergia racemosa

PUCCINIA STAKMANI
Gossypium hirsutum

PUCCINIA SUBSTRIATA
Paspalm floridanum

PYRENOPHORA COMATA
Petalostemon multiflorus

PYTHIUM COMPECTENS
Pelargonium sp.

PYTHIUM ULTIMUM
Ipomoea batatas

PYTHIUM SP.
Ulmus pumila

RAMULARIA SAURURI
Saururus cernuus

RAVENELIA ARIZONICA
Prosopis glandulosa

RHIZOCTONIA SOLANI
Fraxinus pennsylvanica var. *lanceolata*
Gysophila paniculata
Sorghum vulgare
Ulmus americana
Ulmus pumila

RHYTISMA ACERINUM
Acer rubrum

RHYTISMA ILICINCOLUM
Ilex decidua

RHYTISMA VACCINII
Vaccinium arboreum

SCHIZOPHYLLUM COMMUNE
Malus sylvestris
Melia azedarach
Populus alba

SCIRRHIA SPOROBOLI
Muhlenbergia asperifolia

SCLEROTIUM ROLFSII
Capsicum frutescens
Phaseolus aureus
Soja max

SCOLECOTRICHUM GRAMINIS
Eragrostis secundiflora
Secale cereale

SELENOPHOMA DONACIS var.
Sporobolus clandestinus

SEPTORIA ARGEMONES
Argemone alba
Argemone intermedia

SEPTORIA ASCLEPIADICOLA
Asclepias incarnata

SEPTORIA BACILLIGERA
Ambrosia trifida
Solidago sp.

SEPTORIA CORNICOLA
Cornus florida
Cornus racemosa

SEPTORIA CRATAEGI
Crataegus punctata

SEPTORIA GAURINA
Gaura filiformis var *typica*
Gaura parviflora
Gaura suffulta

SEPTORIA IRESINES
Iresine celosia

SEPTORIA PENTSTEMONIS
Pensteman pallidus

SEPTORIA SCROPHULARIAE
Scrophularia marilandica
Scrophularia neglecta

SEPTORIA SYMPLOCI
Symplocos tinctoria

SEPTORIA TECOMAE
Campsis radicans

SEPTORIA URTICAE
Laportea canadensis

SEPTORIA VERBENAE
Verbena hastata
Verbena simplex

SPHACELOMA PLANTAGINIS
Plantago major
Plantago rugelii

SHAEROPSIS CRUENTA
Smilacina racemosa

SPHAEROPSIS ELLISII
Pinus nigra var. *austriaca*

SPHAEROPSIS ULMICOLA
Ulmus americana

SPHAEROPSIS SP.
Tilia americana

SPHAEROTHECA PHYTOPTOPHYLA
Celtis occidentalis

SPOROTRICHUM PERIBUYENSE
Setaria lutescens

STAGONOSPORA ATRIPLICIS
Chenopodium ambrosioides var. *anthelminticum*

STEREUM FASCIATUM
Juglans nigra
Platanus occidentalis
Ulmus americana

STEREUM RAMEALE
Cephalanthus occidentalis

TAPHRINA ULMI
Ulmus americana

UNCINULA MACROSPORA
Ulmus americana

UROMYCES ERAGROSTIDIS
Eragrostis lugens

UROMYCES PHASEOLI var. STROPHOSTYLIS
Strophostyles leiosperma
Strophostyles missouriensis

UROMYCES PUNCTATUS
Astragalus hamosus

UROMYCES SILPHII
Juncus dudleyi

USTILAGO NUMMULARIA
Oryzopsis hymenoides
Stipa comata

USTILAGO SPECULARIAE
Specularia perfoliata

VALSA AMBIENS
Tilia americana

XANTHOMONAS VESICATORIA
Brassica nigra

VIRUS DISEASES:

CROTALARIA MOSAIC
Crotalaria anagyroides
Crotalaria mundyi
Crotalaria spectabilis
Crotalaria striata
Crotalaria usaramoensis
Phaseolus aureus

MOSAIC
Astragalus dahuricus
Astragalus falcatus
Astragalus hamosus

PHLOEM NECROSIS
Ulmus americana

NONPARASITIC DISEASES:

SAND DROWN
Gossypium hirsutum

UNDETERMINED DISEASES:

WITCHES'-BROOM
Arachis hypogaea

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